

a second column of pixels includes a proximal set of second pixels and a distal set of second pixels separated by a second jog region;

a first metal bus is insulatively disposed over both the first and second jog regions;

the proximal set of first pixels is disposed along a first proximal line parallel to the column direction;

the distal set of first pixels is disposed along a first distal line parallel to the column direction; and

the first proximal and distal lines are displaced by a fraction of a pixel pitch in the lateral direction.

RETICULATED GATE CCD PIXEL WITH DIAGONAL STRAPPING

ABSTRACT OF THE INVENTION

A sensor includes an array of pixels organized in rows and columns and a plurality of metal busses overlaying the array of pixels. A first column of pixels includes a proximal set of first pixels and a distal set of first pixels separated by a first jog region. A second column of pixels includes a proximal set of second pixels and a distal set of second pixels separated by a second jog region. The first jog region is displaced in a column direction and in a lateral direction transverse to the column direction from the second jog region. A first metal bus is insulatively disposed over both the first and second jog regions.